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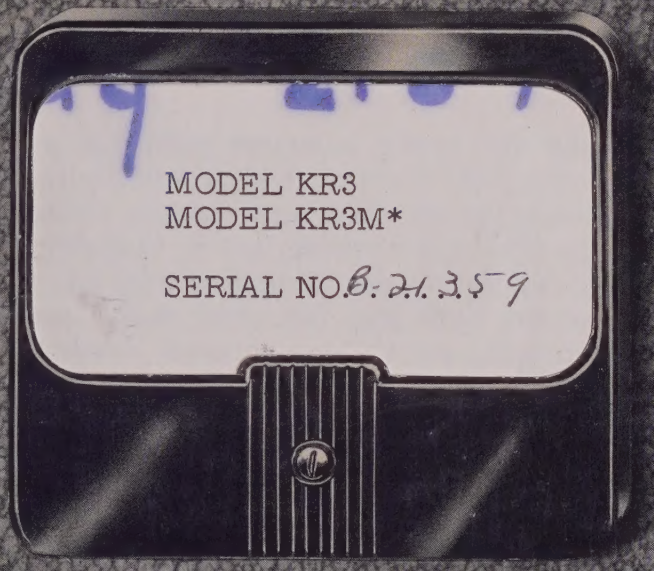
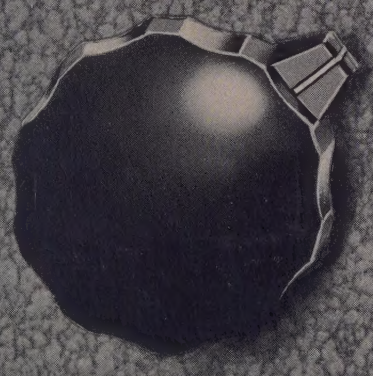
VRPS*





* VOLTAGE REGULATED POWER SUPPLIES

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MODEL KR3
MODEL KR3M*

SERIAL NO. B-21.359

KEPCO, INC.
131 - 38 Sanford Avenue
Flushing 55, New York

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KEPCO, INC.
131 - 38 Sanford Avenue
Flushing 55, New York

VOLTAGE REGULATED POWER SUPPLY

MODEL KR3
MODEL KR3M*

SPECIFICATIONS:

DC OUTPUT VOLTAGE

VOLTAGE: 100-200 volts continuously variable.

CURRENT: 0-300 milliamperes continuous duty.

REGULATION: In the range 100-200 volts the output voltage variation is less than 0.2 volt for line fluctuation from 105-125 volts, and less than 0.2 volt for load variations from minimum to maximum current.

RIPPLE VOLTAGE: The ripple voltage is less than 3 millivolts RMS under any condition of loading and line voltage within the limits specified above.

AC OUTPUT VOLTAGES

VOLTAGE: Two, 6.3 volts, unregulated, and isolated from chassis and DC output.

CURRENT: 5 amperes maximum each, may be operated in series or parallel. For series operation, 12.6 volts at 5 amperes, join terminals 5 to 6 and connect to 4 and 7. For parallel operation, 6.3 volts at 10 amperes, join terminals 4 to 6 and terminals 5 to 7 and connect to either pair.

FUSE PROTECTION: Input fuse and DC output fuse on front panel.

POWER REQUIREMENTS: 105-125 volts, 50-65 cycles.

OUTPUT TERMINATIONS: The DC and AC output terminals are brought out

to a barrier strip on the rear of the chassis. Either positive or negative terminal of the DC supply may be grounded. A terminal is provided on the barrier strip for this purpose. Two blank terminals are also provided.

* METERS: Voltmeter: 0-200 volts, 3-1/2" rectangular.

Milliammeter: 0-300 milliamperes, 3-1/2" rectangular.

CONTROLS: Power on-off switch and DC on-off switch on front panel. The DC output control is a screwdriver locking type mounted at the rear of the chassis.

PHYSICAL SPECIFICATIONS: Rack panel construction. Panel height 7", width 19", depth 11", color Kepco standard gray hammertone. This unit is designed for relay rack mounting.

OPERATING INSTRUCTIONS: The Kepco Model KR3, KR3M Regulated Power Supply is shipped with all tubes in place and is ready for operation.

PROCEDURE FOR TURNING ON POWER SUPPLY: Turn on the AC power switch. A time delay relay will operate after a 1/2 minute warm up period. Turn on the external DC output switch to apply the regulated voltage to the load.

The time delay relay in this unit is a thermal type. When the thermal time delay relay closes, an auxiliary double pole-double throw relay is activated. One half of this relay removes the heater voltage from the time delay relay. The other half of the relay closes the primary circuit of the high voltage plate transformer. In the event that the line voltage should fail momentarily, this double pole-double throw relay will be de-energized. When the line voltage is again turned on, the DC voltage will not re-appear for approximately 30 seconds.

To adjust the DC output voltage to any setting within the range of the instrument, loosen the locking nut on voltage control. Set the control to the desired voltage and then tighten the locking nut.

MAINTENANCE: The components of the Model KR3, KR3M Regulated Power Supply have been selected and tested to provide long and trouble-free operating life. The only service necessary should be the replacement of vacuum tubes. The location of the tubes is clearly marked on the chassis.

REPAIRS: Should any trouble develop in the instrument, it may be serviced with the aid of the schematic diagram. Major repairs, however, are usually handled by the factory.

Under no circumstances should the instrument be returned to the factory without proper authorization and shipping instructions. In any correspondence with the factory concerning repairs, the type and serial number of the instrument must be given together with a description of the trouble encountered.

PARTS LIST - MODEL KR3, KR3M*

DRAWING S-KR3, KR3M-01

C1	- 4	MF	1000 WV
C2	- 10	MF	600 WV
C3	- 10	MF	600 WV
C4	- 10	MF	600 WV
C5	- 500	MMF	2000 WV
C6	- 0.1	MF	600 WV
C7	- 0.1	MF	600 WV
C8	- 0.25	MF	600 WV
C9	- 0.1	MF	600 WV
C10	- 500	MMF	2000 WV
C11	- 500	MMF	2000 WV
C12	- 22	MMF	2000 WV
C13	- .005	MF	2000 WV

F1	- 4 Amp. Fuse
F2	- 1/2 Amp. Fuse

*M1	- Milliammeter 0-300 MA DC
*M2	- Voltmeter 0-200 V DC

PL1	- Neon Pilot Light NE-51
PL2	- Neon Pilot Light NE-51

R1	- 250	K	2 watt Pot.
R2	- 12.5	K	10 watt
R3	- 7.5	K	10 watt WW
R4	- 100	K	20 watt
R5	- 100	Ohm	1 watt
R6	- 100	Ohm	1 watt
R7	- 100	Ohm	1 watt
R8	- 47	Ohm	1 watt
R9	- 47	Ohm	1 watt
R10	- 47	Ohm	1 watt
R11	- 100	Ohm	1 watt
R12	- 100	Ohm	1 watt
R13	- 100	Ohm	1 watt
R14	- 1	Meg.	1 watt
R15	- 5.6	Meg.	1 watt
R16	- 470	K	1 watt
R17	- 470	K	1 watt
R18	- 5.6	Meg.	1 watt
R19	- 1	Meg.	1 watt
R20	- 1.5	Meg.	1 watt

PARTS LIST - MODEL KR3, KR3M*

DRAWING S-KR3, KR3M-01

R21	- 120	K	1 watt
R22	- 150	K	1 watt
R23	- 56	K	1 watt
R24	- 150	K	1 watt
R25	- 56	K	1 watt
R26	- 56	K	1 watt
R27	- 10	K	1 watt
R28	- 270	K	1 watt
R29	- 390	K	1 watt

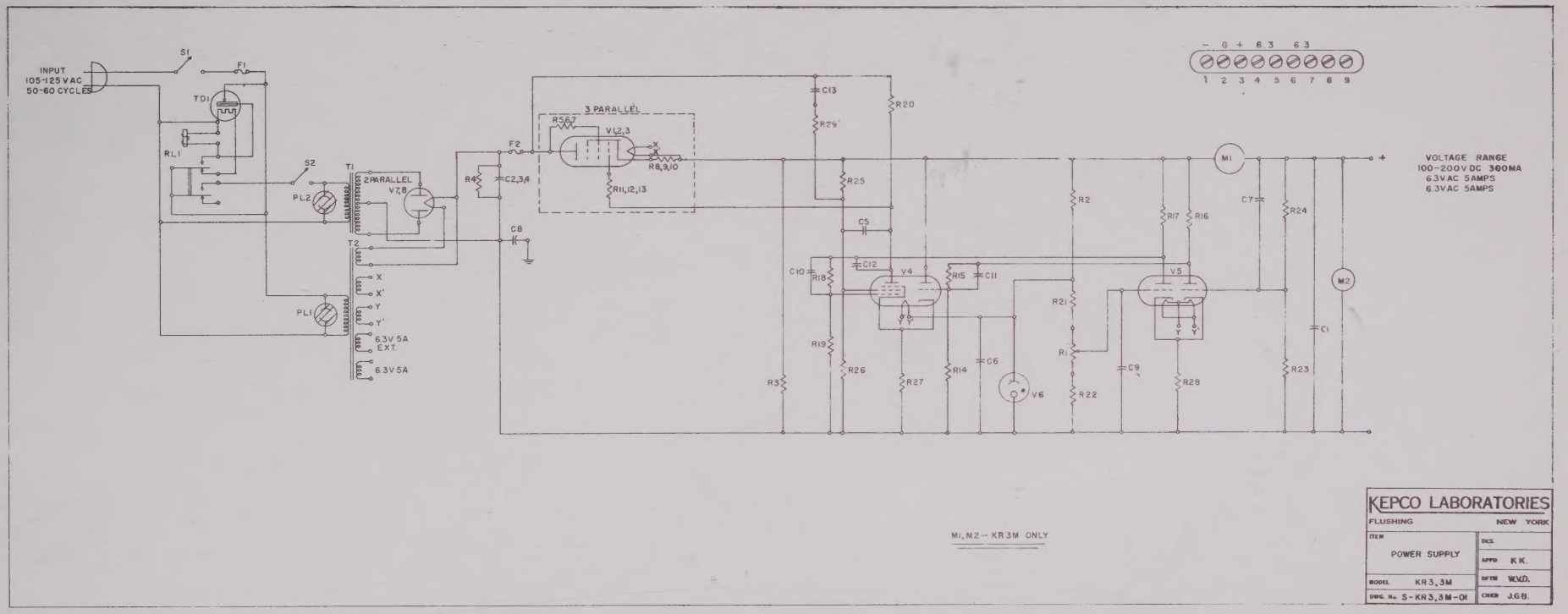
RL1 - DPDT Relay

S1 - SPST Switch
S2 - SPST Switch

T1 - Kepco #100-654
T2 - Kepco #100-564

TD1 - 117-30-GO or 115 NO 30T

V1 - 6550
V2 - 6550
V3 - 6550
V4 - 6AW8A
V5 - 12AX7
V6 - 85A2/OG3
V7 - 5U4GB
V8 - 5U4GB



M1, M2 — KR3M ONLY

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FLUSHING		NEW YORK
ITEM: POWER SUPPLY		DES.
		APPD: K.K.
MODEL: KR3,3M		DFTR: W.V.D.
DWG. No. S-KR3,3M-01		CHKD: J.G.B.

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